HOOVER

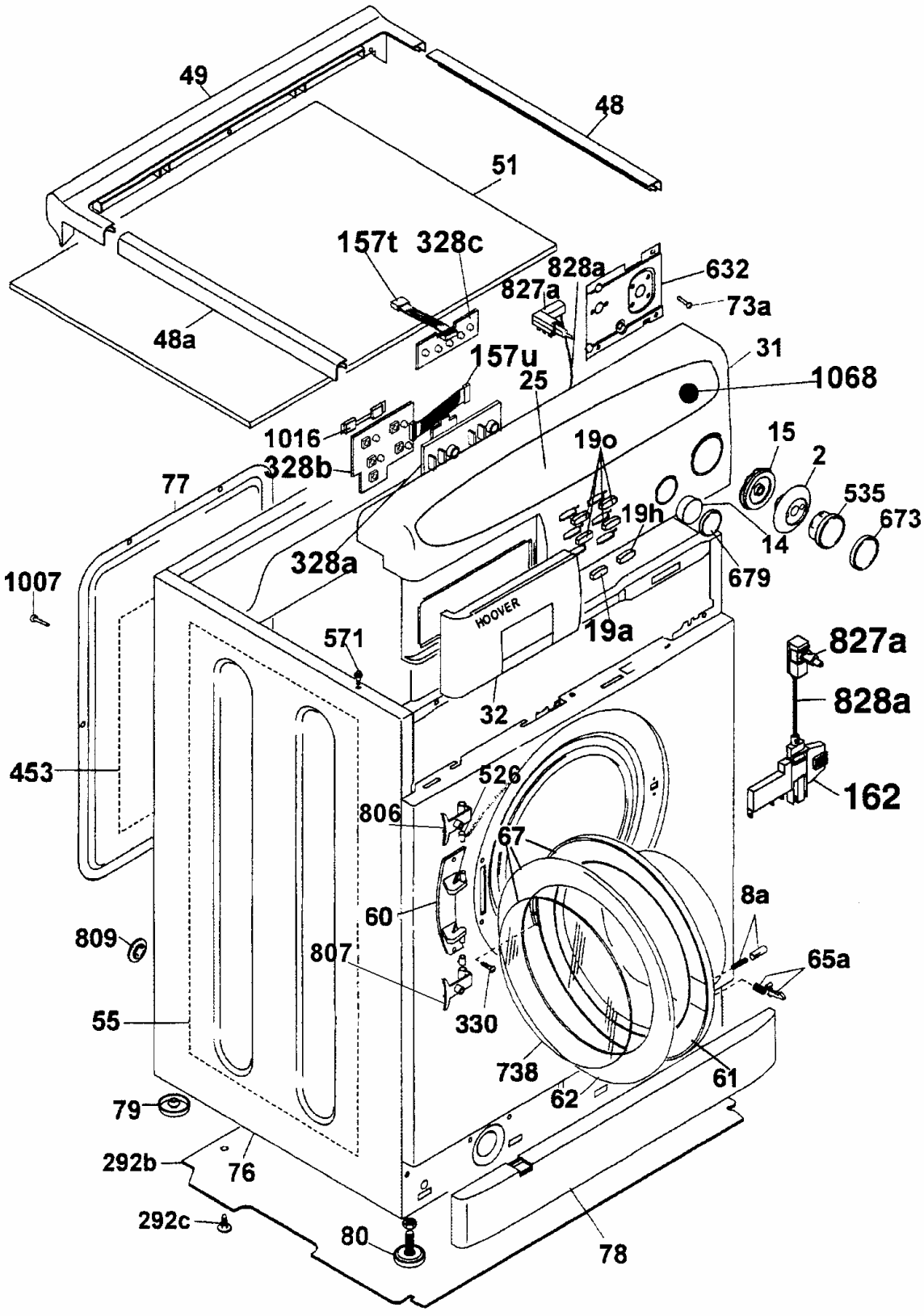
W.MACHINE/WASHER-DRYER

31000831 SE234-80

Service Manual

SE 160 E, ASM 160 Wash. M/cs

SE160 E



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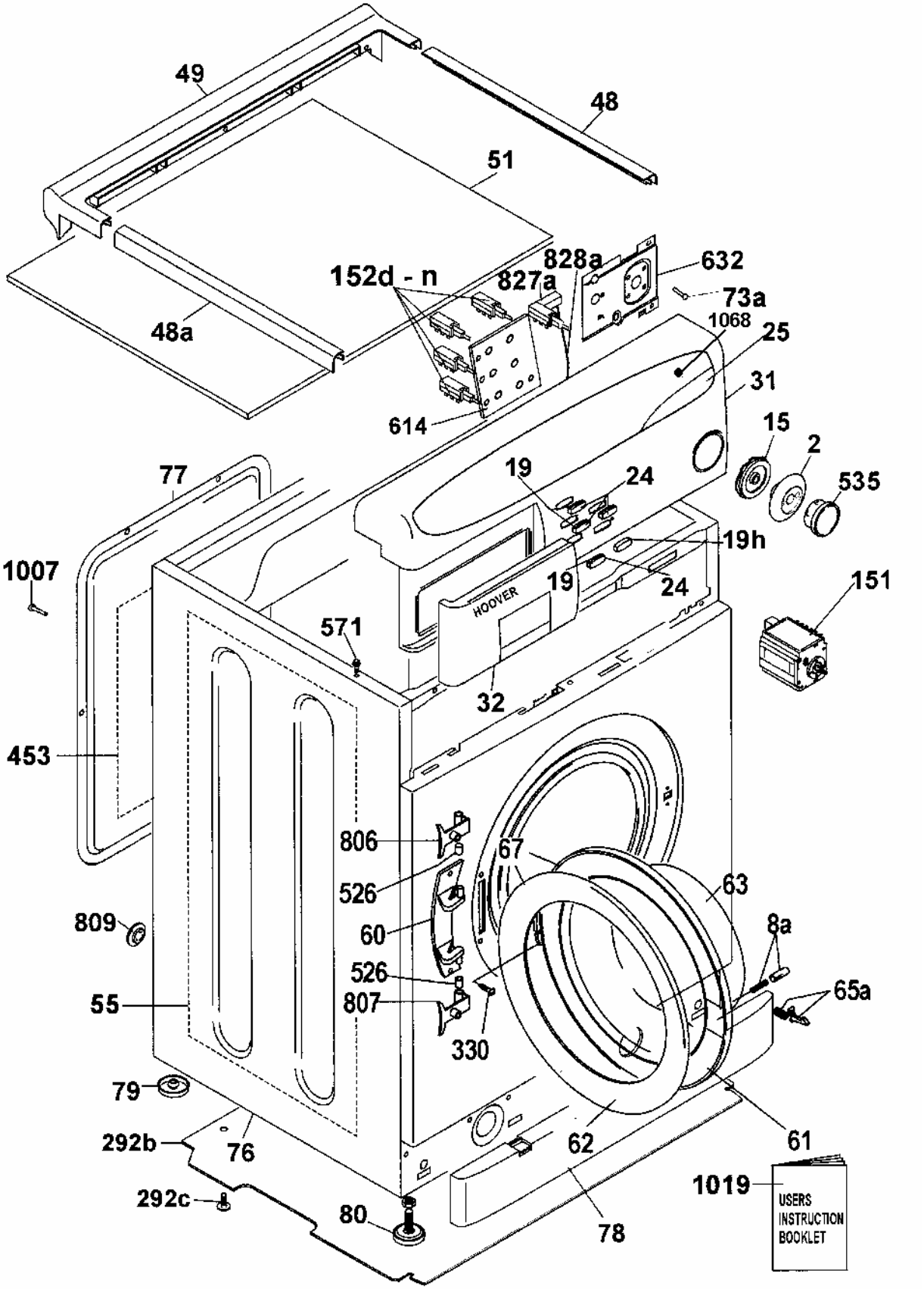

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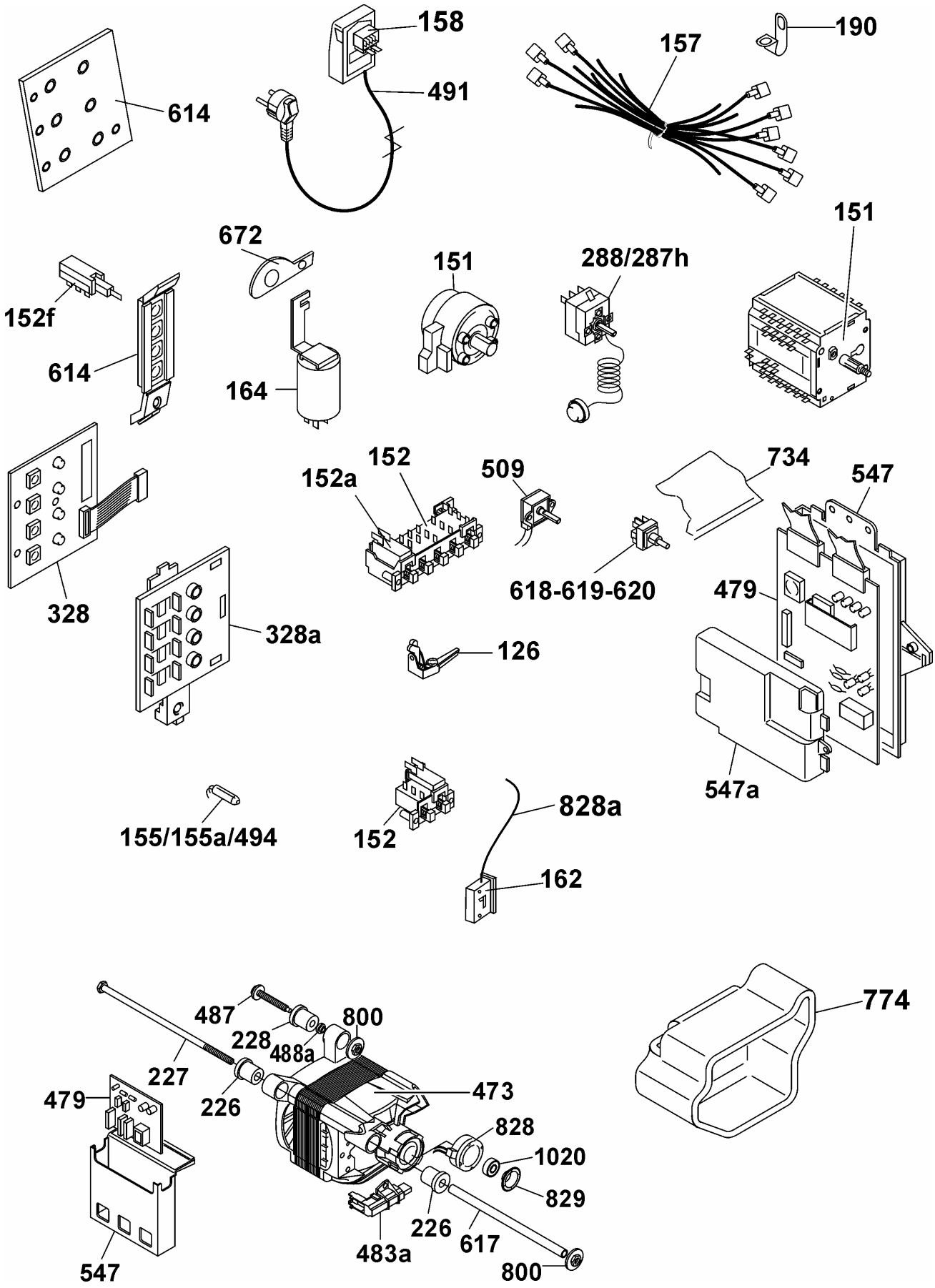

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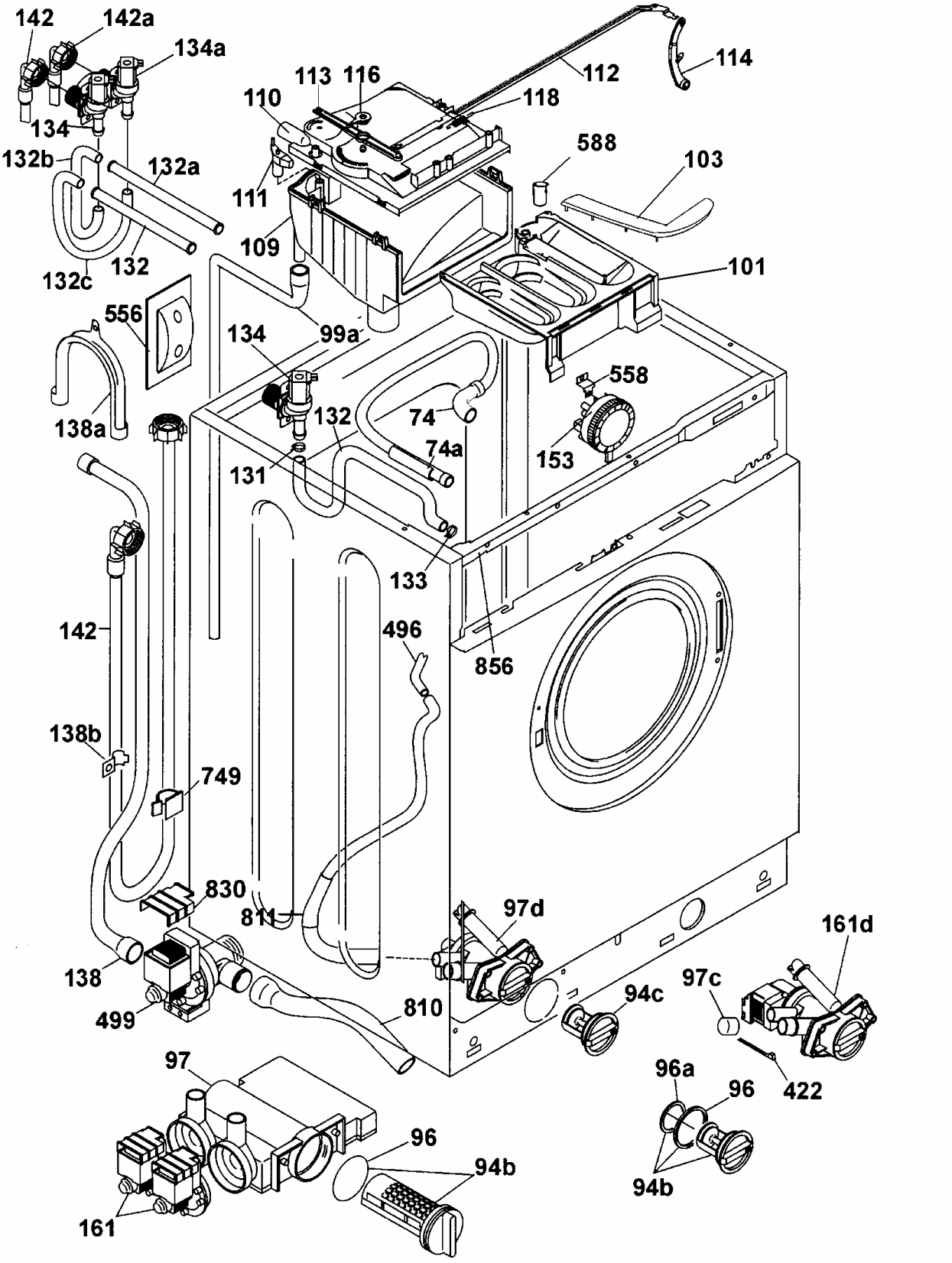

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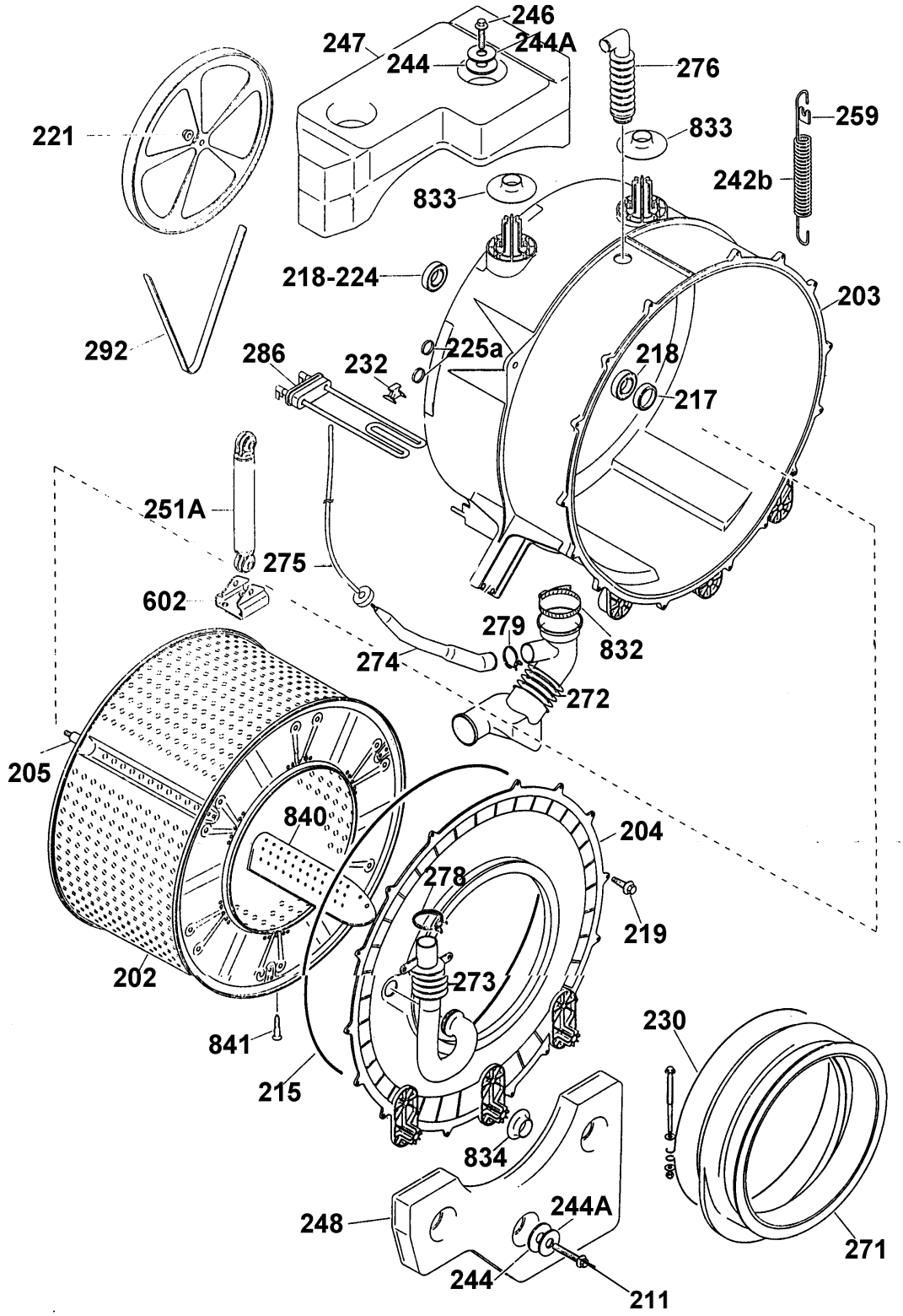

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31000831 SE234-80 0442 (12/10/2004)

Ref.	Descrizione - Description - Beschreibung - Descripcion	Ricambio Part No. Piece E-Teil Pieza	Inizio Beginning Debut Begin Inicio	Fine Ending Fin End Fin
2	Programs disc	03841518		
8a	Buffer with spring service pack	97917116		
15	Cam disc	03850314		
19	Button	03841445		
24	Button protection	03841444		
31	Control panel	40002149		
32	Dispenser drawer front	04230676		
48	R/H side frame	03940686		
48a	L/H side frame	03940687		
49	Top rear frame	03940685		
51	Work top	03410167		
60	Hinge	91700102		
61	Counter ring	91601645		
62	Door surround	91601647		
63	Door glass	91600903		
65	Door catch	91601655		
66	Spring	91408713		
67	Glass door with frame	91670644		
73a	Screw	09031030		
76	Cabinet assy	04230672		
77	Rear panel	97911044		
78	Socle	41006148		
79	Rear foot	92606474		
80	Front foot	92692300		
94c	Filter knob with gasket	06015493		
97d	Filt hous w/filter cartridge	91941772		
99a	Hose	41010982		
101	Dispenser drawer	03870775		
103	Rack	41005935		
109	Dispenser bottom section assy	03870708		
110	Dispenser top section	03870774		

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Ref.	Descrizione - Description - Beschreibung - Descripcion	Ricambio Part No. Piece E-Teil Pieza	Inizio Beginning Debut Begin Inicio	Fine Ending Fin End Fin
111	Water injector nozzle	92149327		
112	Distribution connecting rod	92884212		
113	Lever	97910582		
114	Driving lever	41000950		
114a	Hose clip	92470061		
116	Cam	06012915		
118	Spring	92483148		
131	Hose clip	92470020		
131a	Hose clip	92470194		
132	Hose	97910517		
133	Hose clip	92470012		
134	Solenoid valve	25686057		
138	Drain hose	92693373		
138a	Drain house elbow	92689587		
138b	Hose clamp	92895051		
142	Fill hose	92250869		
151a	Motorized selector 30 settings	91201337		
152f	Switch assy (Unipolar)	91201694		
153	Pressure switch	28375052		
155	Indicator light	91209510		
157	Wiring harness	04660497		
157d	7 Way connection	97911473		
157e	6 Way connecton	97911481		
157f	11 Way connecton	97911499		
157m	Water valve harness	91201486		
157n	Timer harness	91201360		
157p	Motor to module harness	91201485		
158	Mains block	91623678		
161d	Drain/recycle pump complete	97922819		
162	Door safety device	91201208		
164	Anti jamming filter radio	91212795		

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Ref.	Descrizione - Description - Beschreibung - Descripcion	Ricambio Part No. Piece E-Teil Pieza	Inizio Beginning Debut Begin Inicio	Fine Ending Fin End Fin
178	Motor connector	27719213		
202	Drum	04240181		
203	Tub	97923565		
204a	Front flange	04240184		
205	Drum shaft assy	04150062		
211	Bolt	97923474		
215	Tub gasket	92131689		
217	Seal retainer	92445600		
219	Bolt	21446068		
221	Nut	92424209		
225a	Gasket	92445626		
230	Tub gasket clip	91750458		
230a	Tub gasket clip	90488603		
232	Heater holder	97910301		
242	Support spring.	92484492		
242a	R/H support spring	92484484		
244	Washer	92430206		
244a	Counter weight washer	40001133		
246	Bolt	92419472		
246a	Bolt	97911507		
246b	Slide	09078825		
246c	Clamp	97910061		
247	Upper balance weight	97910491		
248	Lower balance weight	03940700		
251a	Telescopic shock absorber	92484518		
251c	Washer	97910509		
251d	Nut	97915565		
259	Support	92673961		
271	Door gasket	41008852		
272	Discharge pipe	41001597		
273	Fill pipe	91620033		

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Ref.	Descrizione - Description - Beschreibung - Descripcion	Ricambio Part No. Piece E-Teil Pieza	Inizio Beginning Debut Begin Inicio	Fine Ending Fin End Fin
274	Pressure switch air chamber	06012804		
275	5x8 hose	66655731		
276	Steam hose	03860457		
277	Hose spring	90386137		
278a	Hose clip d44	92470137		
286	Heater	91201546		
287m	NTC probe	92743616		
290	Drum pulley	92723824		
292	Drive belt	92130442		
292c	Clips	92473636		
330	Screw x hinge	97917587		
473	Commutator motor	41002725		
479i	Coreboard 32K programmed	09200350		
479m	Electronic control 32K not programmed	41003803		
483a	Brush with brush holder	49000466		
487	Special bolt	09183567		
491c	Mains cable x UK	91200201		
494	Red window	91611509		
500a	Hose clip	06012880		
526	Sleeve	91601654		
535	Knob handle	03841449		
547	Module protection	91601842		
547a	Module protection cover	91601843		
558	Support bracket	92884204		
588	Siphon	41000762		
602	Shock-absorb.conn.bracket	92898790		
614	Therm.press.push b. supp.	03870756		
618c	Unipolar NA+P.A. switch	90489683		
632	Control support plate	91802090		
643	Door handle assembly	91601653		
734	Timer protection	03420083		

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Ref.	Descrizione - Description - Beschreibung - Descripcion	Ricambio Part No. Piece E-Teil Pieza	Inizio Beginning Debut Begin Inicio	Fine Ending Fin End Fin
797	Hinge plaque	92897347		
806	Door upper hinge	41005451		
807	Door lower hinge	41005452		
828b	Tach.coil	49000464		
831	Thermostat hole stopper	92898394		
832	Discharge pipe circlip	09077298		
833	Upper counterweight support	92898915		
834	Lower counterweight supp.	92898923		
835a	Magnet	49000465		
839	Clip	92470384		
840	Drum paddle	03870539		
848	Plug	92943216		
1000	Ring	97910459		
1003	Door release link	90384405		
1007	Tie rod	92401447		
1019	Instruction for use	40002147		
1068	Trade mark plate	41000597		

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ELECTRIC DIAGRAM KEY

134	-	Cold Fill Valve
151	-	Timer Selector Motor
152F-1	-	Option Button
152F-2	-	Option Button
152F-3	-	Option Button
153	-	Low / High Pressure Switch
155	-	On / Off Pilot Lamp
161	-	Drain Pump
162	-	Door Micro-switch
164	-	Mains Suppressor
286	-	Heater
287M	-	N.T.C. Thermostat
473	-	Motor
479	-	Control Module
618C	-	On / Off Switch

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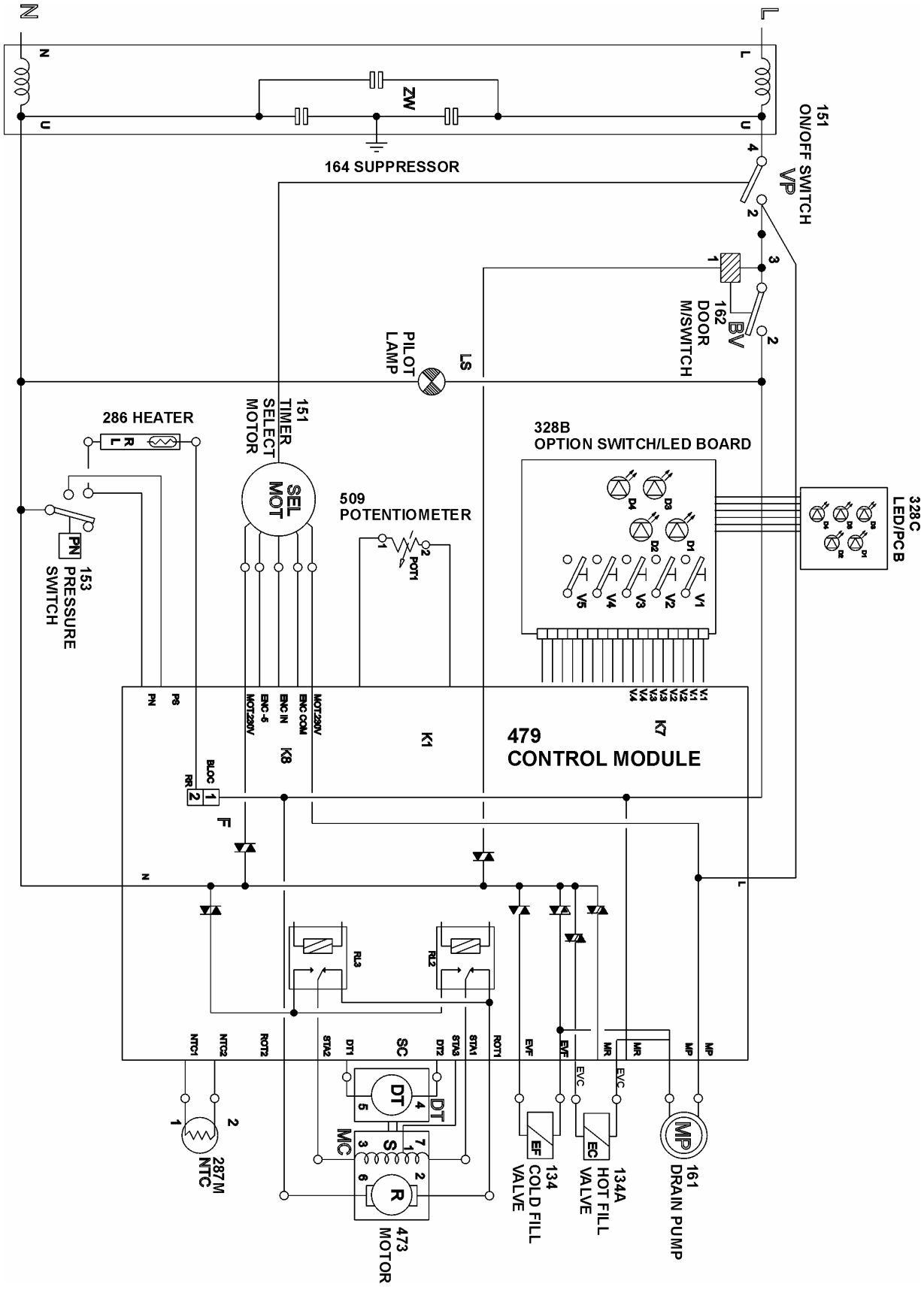
SE160 E CIRCUIT DIAGRAM



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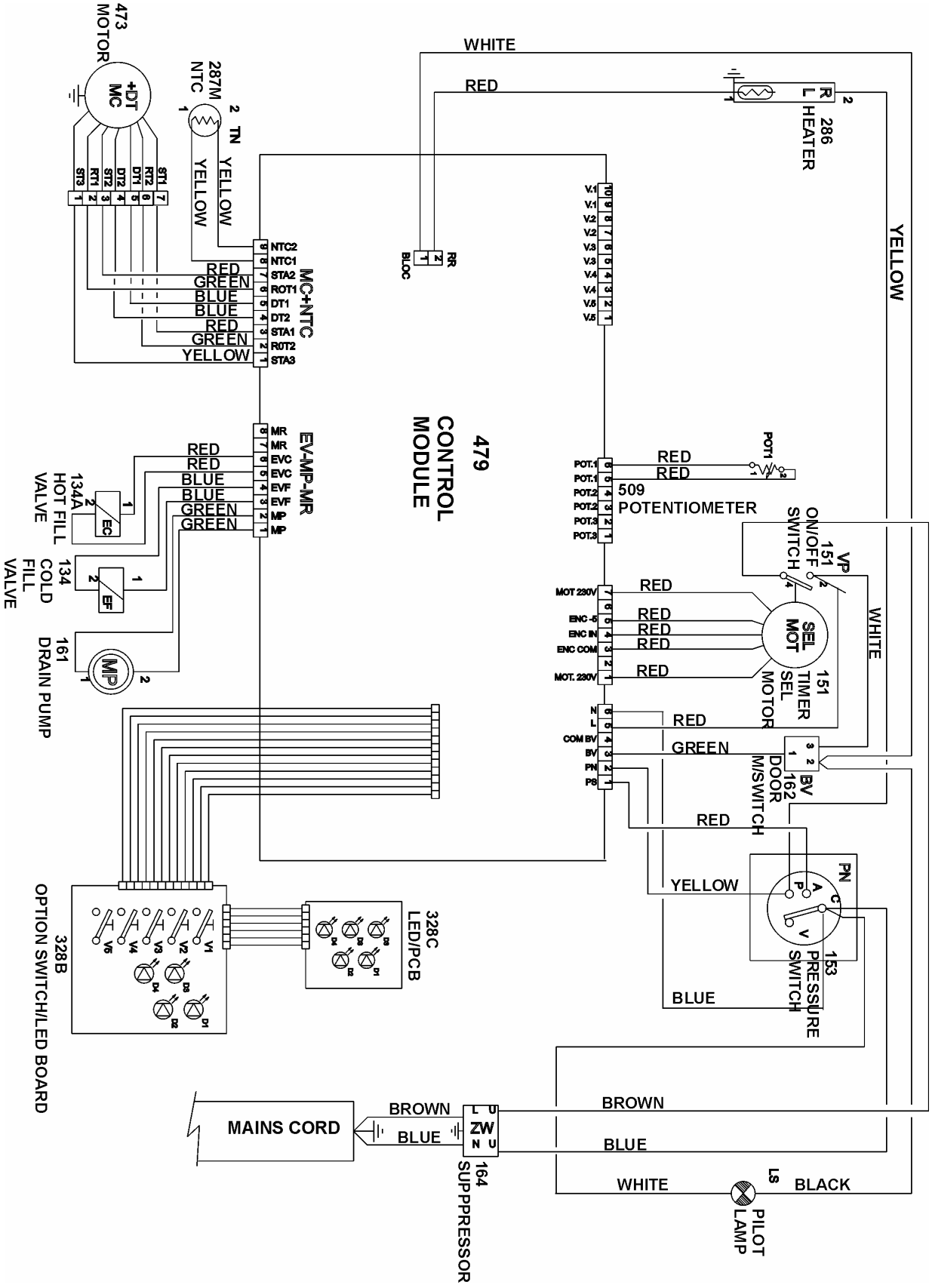
SE160 E WIRING DIAGRAM



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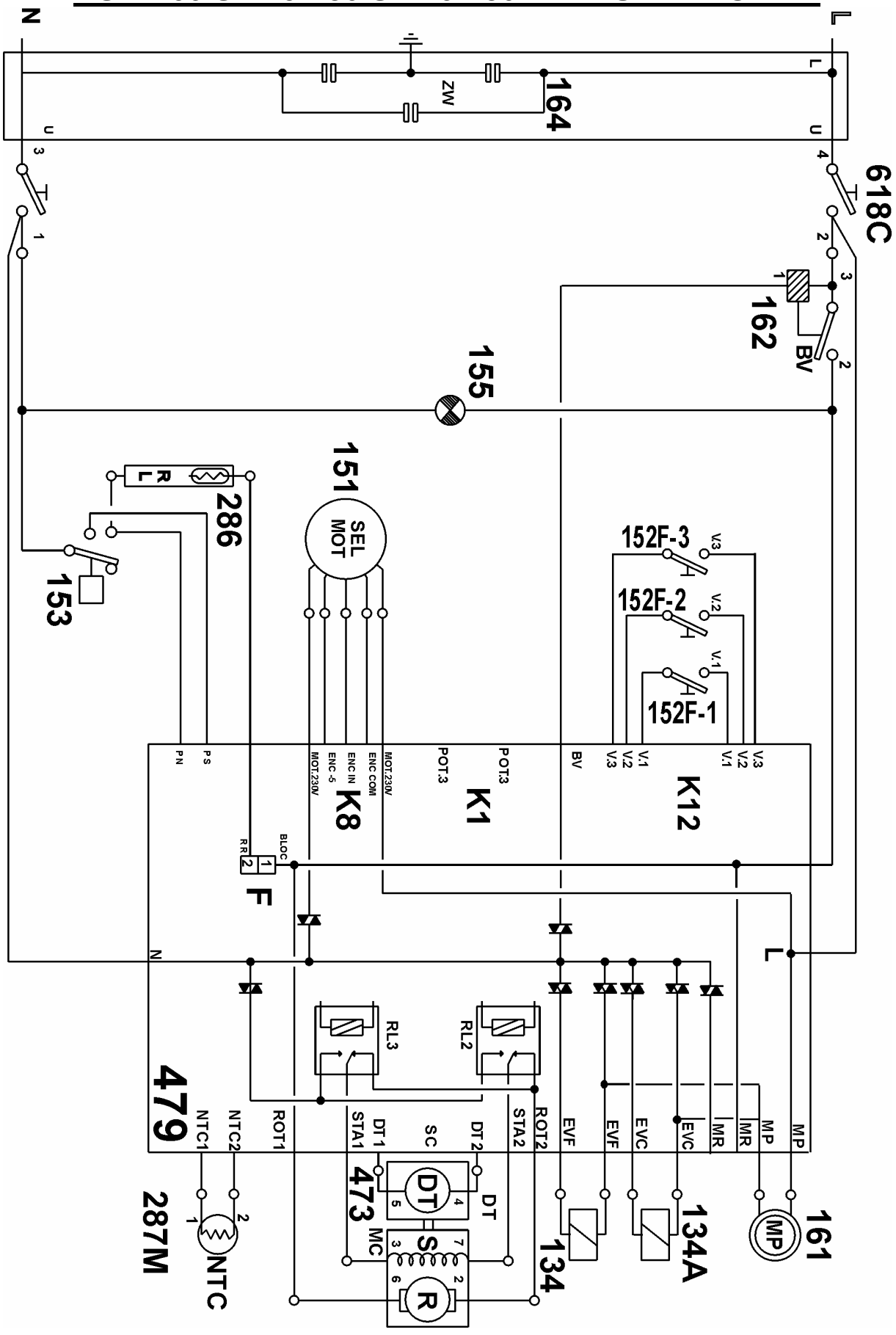
ASM 160/SE 234-80/SE 264-80 CIRCUIT DIAGRAM



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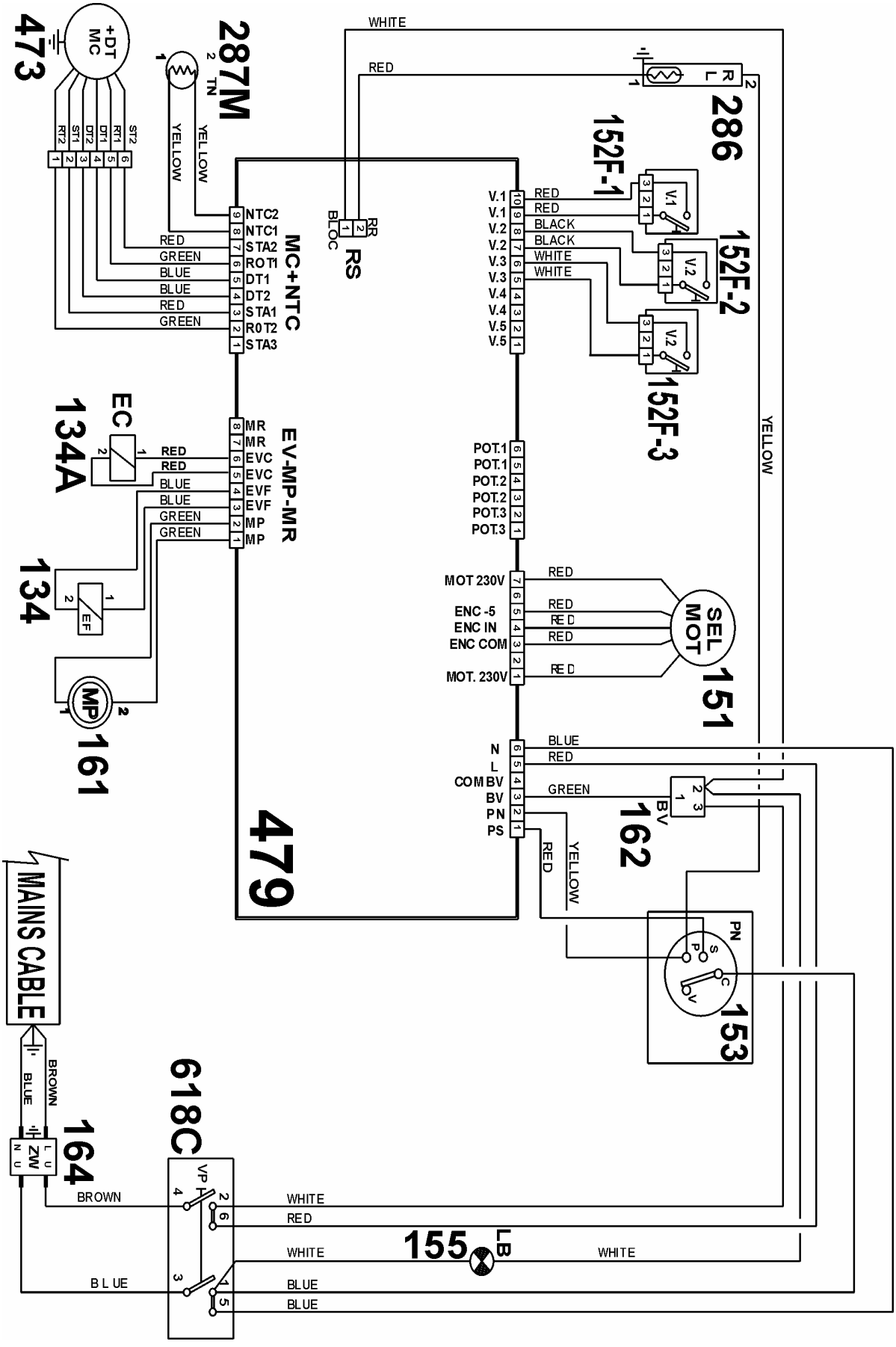
ASM160 /SE 234-80/SE 264-80 WIRING DIAGRAM



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Fitting Notes

WORKTOP REMOVAL

- The worktop is of a new design and features a removable rear support allowing access to the machine by sliding the hardboard top off.
- The rear support is removed by undoing the three 7mm. screws, this will then allow the worktop surface to be removed by sliding it to the rear.
- The side supports can then be removed by sliding to the rear.

BEZEL REMOVAL

- To remove the bezel, firstly remove the worktop side supports, allowing access to the two screws holding the bezel in position.
- Remove the two screws.
- The bezel will then need to be eased up and pulled out of its seating.

TIMER AND CONTROL KNOB REMOVAL

- Once the bezel is removed, pull off the control knob and this will then reveal the timer actuating cam, remove the 8 mm nut, remove the cam assy.
- Access can then be gained to the 2 x Phillips head screws securing timer to inner bezel support. Remove the two screws and take the timer off the bezel.

OPTION SWITCH REMOVAL

- The option switch support assy can be removed by undoing the 5 screws attaching it to the bezel.
- Remove the buttons from the switch being replaced.
- The switch can then be pushed through the support.

PRESSURE SWITCH REMOVAL

- The pressure switch is secured by a bracket attached to the inner metal support underneath the timer and can be removed by a single screw attached to the bracket.

SOAP DISPENSER REMOVAL / SETUP

- The soap dispenser is serviceable and contains three compartments, the third compartment being available to incorporate the use of fabric conditioner.
- To remove the dispenser, remove the worktop and bezel disconnect all hoses, disconnect dispenser actuating arm from the top of the dispenser noting the setting of the arrow on top of dispenser, remove the single phillips head screw from the top front of bezel, the dispenser can then be removed complete.

TO SETUP DISPENSER ACTUATING ARM,

Program 1	pointer at 1st notch	Program 2	pointer at 2nd notch
Program 5	Pointer at 3rd notch	Program 6	pointer at 4th notch

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DOOR GASKET REMOVAL

- To remove the gasket assy firstly remove the plastic clamp band around the front of the gasket. To remove the inner clamp band a 7mm. nut spinner and 7mm. open ended spanner will be required. Re-fit gasket in reverse order taking care to ensure that the cut out on the side of the gasket lines up with the hose assy (where used) situated at approx. 9'o' clock.

DOOR INTERLOCK REMOVAL

A **BI-metal** type interlock is fitted on all models.

- To gain access to the interlock remove the clamp band surrounding the tub shell gasket and ease the front of the gasket off the shell.
- Remove the two screws holding the interlock and it can be removed from the door aperture.
- Note the wiring connections before removing the original interlock.
- After servicing the door interlock **make sure that the clamp band is replaced** .

MOTOR ASSY REMOVAL

- To remove the motor firstly remove the non-adjustable elasticated belt, the motor can then be removed by undoing the two 10m.m. self tapping bolts.
- Care must be taken when removing and refitting the motor.
- To prevent damage to the motor supports, place a block of wood at the rear of the motor under the tacho assembly and tap the motor to gently ease it away from the mountings.

DRUM AND TUB REMOVAL

- Remove the Worktop.
- Open the door and undo the two screws holding the door & the hinge, lift away the door assembly including the hinge.
- Remove the gasket clamp band ,release the gasket from the shell and push it through into the cabinet.
- Remove the top weight assy, two 10mm. and one 13mm. securing bolts from tub assy.
- Remove timer assy and associated wiring, motor assy, thermostat, heater connections, earth connection for drum bearing, sump hose and pecker assy.
- Carefully lay the machine on its right hand side (timer side) taking care to ensure that the shell assy interior is protected with some hardboard.
- Remove the four 7mm. machined screws from the base of each suspension strut.
- The tub assy is now free to be carefully removed from the shell.
- Access to the lower tub weight is now available and is held in place by three 10mm. bolts.
- **The drum** can now be accessed by removing 16 screws from the tub front,
- The tub front can be lifted away with the tub shell gasket attached.
- To remove the drum :Remove the drum pulley and the drum can be withdrawn from the front of the tub,
- The drum may be very tight and require knocking out of the tub.
- Care must be taken to protect the drum shaft threads with a packing bolt.

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TUBS MUST BE CHANGED COMPLETE

- The drum bearings are **not** serviceable,
- **Make sure** when fitting the suspension dampers that they are fitted with the plastic rod end on to the base of the cabinet, positioned so that the smooth face of the alloy housing faces inward towards the tub.

NOTE ON OUT OF BALANCE DETECTION.

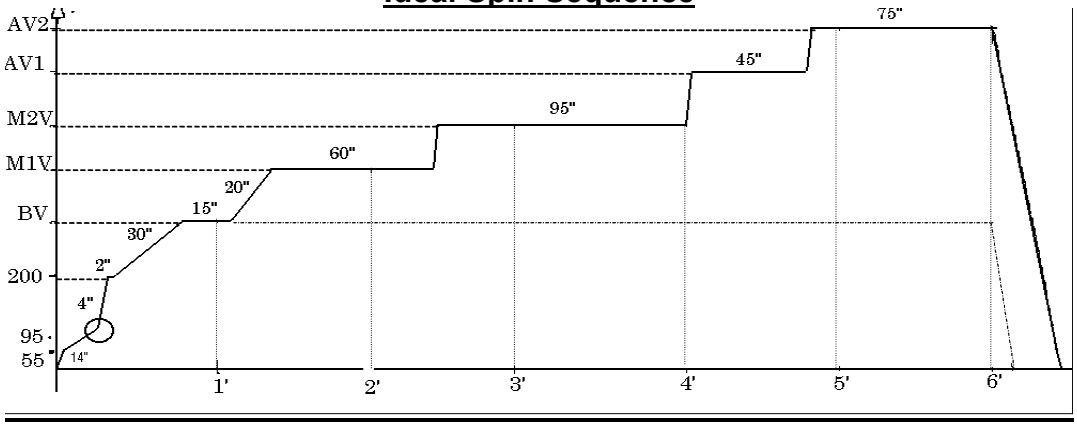
- The timers used on these machines have **O**ut **O**f **B**alance detection on the module and operate in the following way.
- At the start of the spin sequence as the machine ramps to **95rpm**, the load on the motor is monitored as follows.

1. If the machine is heavily unbalanced the spin sequence restarts and the process can continue for up to **12** attempts if still very unbalanced then the cam position will cause the drum to remain stationary for the remainder of spin time.

2. The machine also monitors the load at **650 rpm** if still slightly unbalanced at this point it will try three times to even the load;if it fails, the machine will carry on spinning at **650 rpm** until the end of the program.

3 If the drum is not out of balance the module allows the machine to spin as shown in the graph below.

Ideal Spin Sequence



ELECTRICAL TESTING

- Earth Continuity Earth pin on plug top to
  1. Door Hinge — Max 1Ω
  2. Drum Inner — Max 1Ω

- Insulation CCP Bonded to Earth spin selected, door shut, Switched On Minimum 1MΩ

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LIMESCALE REMOVER - DEGREASE - PURIFIER & HYGIENIC CLEANER FOR WASHING MACHINE & DISHWASHER

ANTICALCARE - DISINCROSTANTE - IGIENIZZANTE PER LAVATRICI E LAVASTOVIGLIE

DISINCRUSTANTE DE CAL Y LIMPIADOR HIGIENICO PARA LAVADORAS Y LAVAVAJILLAS

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